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NOTES AND STATISTICS

ON

VACCINATION IN BURMA

For the Official year (April to March) 1932-33

Rangoon
Supdt., Govt. Printing and Stationery, Burma
1933

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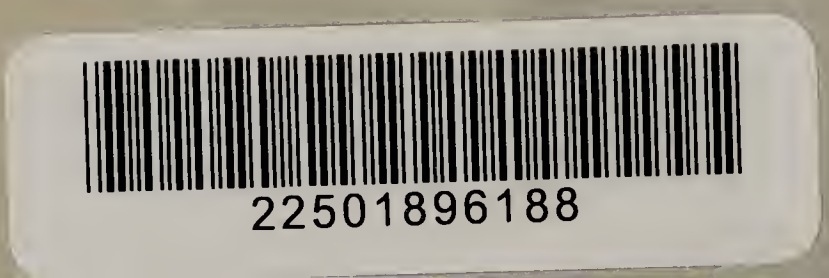
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NOTES AND STATISTICS

ON

Vaccination in Burma

For the official year (April to March) 1932-33.

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1. **Establishment.**—The following table compares the strength of the vaccination staff employed in the Province during the year 1932-33 with that of the two preceding years :—

Vaccination Staff.

Year.	Province or State.	District Superintendents of Vaccination	Part-time Supervising Officers.		Inspectors of Vaccination.	Head Vaccinators.	Vaccinators.
			Sub-Assistant Surgeons, etc.	Public Health Inspectors.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1930-31	Burma ...	38	32	26	39	...	354
	Shan States	2	...	...	2	3	42
1931-32	Burma ...	38	32	37	39	...	355
	Shan States	2	...	...	2	3	42
1932-33	Burma ...	38	32	48	30	...	351
	Shan States	2	...	...	2	3	43

BURMA.—During the year 1932-33, 351 vaccinators were employed, compared with 355 during the previous year. There was a decrease of 2 in Prome district, 1 in Insein district and 1 in Mandalay Cantonment. There were 30 inspectors of vaccination, compared with 39 in the previous year. The 9 places were, however, filled by public health inspectors who have a higher technical training. Government has informed local bodies that a qualified public health inspector is to be appointed in any future vacancy occurring in the post of inspector of

vaccination. The number of public health inspectors rose from 37 to 48, while that of the sub-assistant surgeons, etc., supervising vaccination work, remained the same.

In order to cope with local outbreaks of smallpox 41 temporary vaccinators were entertained for various periods—20 in Rangoon town, and 1 each in Pyawbwe, Moulmein, Pyinmana and Minbu towns, 3 each in Bassein and Tharrawaddy districts, 2 each in Magwe and Shwebo districts, and 1 each in Henzada, Myaungmya, Hanthawaddy, Minbu, Kyauksè, Bhamo and Mandalay districts.

SHAN STATES.—One additional vaccinator was employed in the Federated Shan States. Otherwise the staff remained the same as in the previous year.

Statement I.

2. General Review—Totals Vaccinated.—

BURMA.—A total of 1,138,145 persons are reported to have been vaccinated, compared with 894,704 in the previous year—an increase of 243,441 persons.

This was mostly due to the higher incidence of smallpox. With an increase in the prevalence of smallpox there was a corresponding greater readiness on the part of people to get vaccinated. It is to be hoped that with the spread of education it will not in the near future require an unpleasant stimulus such as an epidemic to make the people recognise the necessity of vaccination.

SHAN STATES.—The States report 120,969 persons, compared with 82,146 in 1931-32—an increase of 38,823 persons.

These figures exclude jail and ship vaccinations, but include dispensary and private vaccinations.

Statement I.

3. Operations Performed.—

BURMA.—The total number of operations performed in Burma during the year under report, excluding jail and ship but including dispensary and private vaccinations, was 1,140,152 (637,649 primary and 502,503 revaccinations), compared with 896,080 (540,865 primary and 355,215 revaccinations) in 1931-32—an increase of 244,072 operations.

An increase is reported from 32 districts and a decrease from 5.

The largest increase is reported from Mandalay (+34,640)' followed by Bassein (+31,737), Myaungmya (+24,738), Tharrawaddy (+21,793) and Lower Chindwin (+20,133). Increases are also reported from the districts of Thayetmyo (+14,963), Henzada (+14,412), Tavoy (+13,302), Yamèthin (+12,974), Magwe (+10,109), Prome (+9,931), Myingyan (+9,693), Pyapôn (+8,314), Maubin (+8,137), Minbu (+7,899), Pakôkku (+6,009), Meiktila (+5,842) and Kyauksè (+5,527).

Of the five districts reporting decreases Sagaing heads the list with (−3,120), followed by Toungoo (−2,596), Akyab (−785), Salween (−121) and Thatôn (−72).

SHAN STATES.—The total number of operations performed in the Federated Shan States in the year under report was 120,969 (87,668 primary and 33,301 revaccinations), compared with 82,146 (65,080 primary and 17,066 revaccinations) in 1931-32—an increase of 38,823 operations.

4. Primary Vaccination.—

Statement I.

BURMA.—A total of 637,649 primary operations was recorded during the year, compared with 540,865 during 1931-32—an increase of 96,784. Out of 38 districts, 28 report increases and 10 decreases.

Large increases are reported from the districts of Bassein (+21,838), Tharrawaddy (+15,126), Myaungmya (+14,601), Bhamo (+7,421), Myingyan (+6,607) and Pyapôn (+6,414).

Decreases of over 1,000 are returned by the districts of Sagaing (−2,161) and Akyab (−1,113).

SHAN STATES.—The number of primary vaccinations reported for the year under report is 87,668, compared with 65,080 in the previous year—an increase of 22,588.

5. **Revaccination**.—A total of 502,503 revaccinations is recorded during the year, compared with 355,215 in 1931-32—an increase of 147,288. Increases are reported from 32 districts and decreases from 6 districts. Statement I.

Large increases are reported from the districts of Mandalay (+32,573), Lower Chindwin (+20,042), Shwebo (+15,021), Tavoy (+14,184), Yamèthin (+12,810), Thayetmyo (+10,630), Henzada (+10,579) and Prome (+10,551). Increases over five but below ten thousand are returned from the districts of Tharrawaddy, Bassein, Minbu, Magwe, Pakôkku, Kyauksè and Upper Chindwin. The general increase is in keeping with the higher incidence of smallpox.

Decreases of over one thousand are reported from Rangoon (−65,781) and the districts of Toungoo (−1,625) and Thaton (−1,054). In the last two districts the travelling allowance of the vaccinators has been fixed, instead of being paid according to the journeys performed, and this is given as the cause of the falling off in the amount of work done.

6. Results of Vaccination.—

Statement I.

BURMA.—Of the 637,649 primary operations (including those performed by medical officers in charge of dispensaries and by private practitioners) performed during the year under report, 572,668 are reported as successful, compared with 498,023 in the previous year. The results of 39,118 were unknown, compared with 27,275 in the previous year. The number of failures therefore works out at 25,863, compared with 15,567 during the previous year.

Of the total of 572,668 successful vaccinations, 168,701 were on infants under one year of age and 312,615 on children of one to six years. The remaining 91,352 successful cases were on persons over six years of age.

The percentage of success in primary vaccinations of which the results were known is 95·68, compared with 96·97 in the previous year. Success rates over 99 per cent. are returned by Kyauksè (99·56) and Bhamo (99·85) districts and below 90 per cent. by Chin Hills (74·53), Myingyan (88·97), Upper Chindwin (87·07) and Lower Chindwin (89·95) districts. The remaining districts report success rates between 90 and 99 per cent.

Of the 502,503 revaccinations, 133,742 are reported as successful, compared with 81,031 in the previous year. The percentage of success in revaccinations of which the results were known is 33·25, compared with 31·71 in the previous year.

SHAN STATES.—Of the total of 87,668 primary vaccinations performed in the Federated Shan States, 70,225 are reported as successful, compared with 58,775 in the previous year.. The results of 16,465 were unknown, compared with 4,551 in the previous year. The number of failures therefore works out at 978, compared with 1,754.

Of the 33,301 revaccinations, 13,077 are reported as successful, compared with 8,538 in the previous year.

The percentage of success amongst cases of which the results were known is 98·62 in primary vaccinations and 52·09 in revaccinations.

Statement I.

7. Vaccination in Towns.—

BURMA.—In the 74 towns to which the Vaccination Acts have been extended, a total of 230,276 operations were performed during the year, compared with 239,005 in the previous year. Of the total operations, 61,002 were primary and 169,274 were revaccinations, compared with 59,240 and 179,765, respectively, in the previous year. This gives an increase of 1,762 in primary and a decrease of 10,491 in revaccinations.

Of the 74 towns, 47 report an increase and 27 a decrease. The highest increases are reported from Mandalay (+25,478), followed by Tavoy (+6,266), Maymyo (+5,690), Henzada (+4,656), Akyab (+3,769), Minbu (+3,750), Myingyan (+1,701), Sagaing (+1,555), Kyonpyaw (+1,438), Syriam (+1,413), Gyobingauk (+1,239), Shwebo (+1,203) and Thôngwa (+1,080). On the other hand, a large fall is reported by Rangoon (−69,715), followed by Myitnge (−3,581), Letpadan (−3,182) and Insein (−2,004). The large increase in Mandalay was attributed to the higher incidence of smallpox and to better supervision, and the large decrease in Rangoon was due to the fact that an abnormally large number of operations was performed in the last three months of the previous year when a severe outbreak of smallpox occurred.

SHAN STATES.—A total of 4,962 operations were performed in the three towns in the Shan States during the year under report, compared with 2,170 in the previous year—an increase of 2,792.

8. Results of Vaccination in Towns.—

Statement I.

BURMA.—Out of 61,002 primary operations performed in the 74 towns, 55,497 were successful ; out of 169,274 revaccinations 47,263 were successful. The percentage of successful cases to total known cases is 97·63 in primary and 36·39 in revaccinations, compared with 97·99 and 35·03, respectively, in the previous year.

Of the 74 towns, 26 report 100 per cent primary successes and 41 report successes below 100 but over 90 per cent. Seven towns return success rates below 90 per cent., *viz.* Kyaukpyu, Sandoway, Kawkareik, Mergui, Myingyan, Pyawbwe and Mawlaik.

High success rates (ranging from 70 to 100) in revaccinations were reported from Minbya, Pegu, Tharrawaddy, Thônzè, Nattalin, Ngathainggyaung, Nyaung-U, Myitkyina and Mawlaik. Low success rates, below 10 per cent., are reported from Syriam, Shwedaung, Henzada, Maubin, Danubyu, Pyapôn and Myingyan.

SHAN STATES.—Of the 1,000 primary operations performed in towns in the Federated Shan States during the year under report, 851 were successful, compared with 837 in the previous year. Of the 3,962 revaccinations, 1,057 were successful, compared with 568 in the previous year. The percentage of successful cases to total known cases is 98·84 per cent. in respect of primary operations and 46·38 in respect of revaccinations, as against 98·12 and 47·49, respectively, during the previous year.

9. Infant Vaccination in Towns.—

Appendix B.

BURMA.—Totals of 45,791 births and 12,177 deaths among infants under one year of age were registered in the 74 towns in which the Vaccination Acts are in force. The number of survivors according to these records is therefore 33,614. During the year under report, 36,198 infants under one year were successfully vaccinated—2,584 in excess of the recorded survivors.

The number of infants successfully vaccinated was in excess of recorded survivors in 33 towns, and below, in 40 towns. In one town, the figures were the same.

A large excess of infant vaccinations over survivors is reported from Mandalay (+2,022), Chauk (+490), Pegu (+451), Insein (+376), Myaungmya (+296) and Henzada (+287).

In seven towns, the number of infant vaccinations exceeded the number of births. These are Pegu, Thingangyun, Henzada, Myaungmya, Maubin, Chauk and Myinmu.

On the other hand, the number of infants successfully vaccinated under one year was considerably below the number of survivors in Rangoon (−1,293), Mergui (−194), Maymyo (−156), Prome (−138), Pyu (−137), Toungoo (−122), Sagaing (−110) and Thatôn (−104).

SHAN STATES.—In the three notified towns, where the Vaccination Acts are in force, 571 births and 104 infant deaths were recorded. The number of recorded survivors was therefore 467, of which 367 were successfully vaccinated.

Statement I (Summary).

10. Dispensary Vaccination.—

BURMA.—Dispensary vaccinations were performed in thirteen districts in Burma during the year, which is the same number as the previous year.

During the year 2,020 primary vaccinations and 6,241 revaccinations were performed, compared with 2,660 and 4,286 operations, respectively, during the previous year.

Out of 2,020 primary operations, 420 are reported as successful and 1,555 as unknown ; out of 6,241 revaccinations 953 are returned as successful and 2,246 as unknown. The percentage of successful cases to total known cases is 90·32 per cent. in primary and 23·85 per cent. in revaccination.

SHAN STATES.—These report 866 primary operations and 1,790 revaccinations, compared with 372 and 386, respectively, during the preceding year.

11. Jail Vaccination.—

BURMA.—In the jails 45,280 prisoners were vaccinated in the year under report, compared with 44,836 in the previous year. Of the 1,833 primary cases, 1,083 were successful and of the 43,447 revaccinations 14,265 were successful. The percentage of success in primary cases is 59·08 and in revaccinations 32·83.

SHAN STATES.—There is no jail in the Shan States.

Statement I (Summary).

12. Vaccination by Private Practitioners.—During the year private medical practitioners performed a total of 3,535 primary and 3,203 revaccinations. The percentage of success amongst the verified cases is 38·66 in primary operations and 28·24 in revaccinations.

The total number of infants under one year of age successfully vaccinated, was 480 ; between one and six years, the figure was 1,550.

13. Ship Vaccination.—Under the provisions of Section 9 of the Burma Vaccination Law Amendment Act of 1909, as amended by Burma Act IV of 1928, 173,025 ship vaccinations were performed in the ports of Rangoon and Akyab during the year 1932-33, compared with 165,990 in the previous year. Rangoon port reported 158,215 (156,537) and Akyab port 14,810 (9,453).

14. Verification Work of Inspecting Officers.—

Statement IV.

BURMA.—Of the total number of 1,138,145 persons vaccinated and revaccinated in Burma during the year under report, District and Assistant District Health Officers and Municipal Health Officers inspected the results of 107,425 or 9·44 per cent., compared with 86,157 or 9·63 per cent. in the previous year.

Of the total number of 635,692 primary vaccinations, Inspectors of Vaccination, Public Health Inspectors and Sub-Assistant Surgeons verified the results of 372,149 or 58·54 per cent, compared with 325,216 or 60·28 per cent in the previous year ; of the total of 502,453 revaccinations they verified 221,103 persons or 44·00 per cent., compared with 152,616 or 42·97 per cent., in the previous year.

SHAN STATES.—Of the 120,969 persons vaccinated and revaccinated in the Federated Shan States during the year under report, the District Health Officers verified the results of 4,737 or 3·92 per cent., compared with 5,680 or 6·91 per cent. in the previous year.

The percentage of verification work carried out by the Inspectors of Vaccination and Head Vaccinators was 32·03 per cent. in primary and 15·70 per cent. in revaccinations, compared with 60·96 per cent. and 23·30 per cent., respectively, in the previous year.

15. Cost of the Department.—

Statement II.

The total cost of the Department, as shown in Statement II, was Rs. 4,33,526-9-7, compared with Rs. 4,26,707-6-8 in 1931-32. The average cost of each successful case of vaccination is Re. 0-9-10, compared with Re. 0-11-10 in the previous year. The lower cost was due to the larger number of vaccinations performed during the year.

If, however, the sum of Rs. 48,008-8-0 credited to Government, on account of the sale in Burma of vaccine lymph, be deducted from the total expenditure of Rs. 4,33,526-9-7, the net cost of the Department is reduced to Rs. 3,85,518-1-7, compared with Rs. 3,90,562-1-8 in the previous year. The average cost of each successful case is therefore proportionately reduced to Re. 0-8-9, compared with Re. 0-10-10 in 1931-32.

High rates of average cost are reported from the following districts, *viz.*, Arakan Hill Tracts (Rs. 1-12-9), Salween (Rs. 1-5-2) and Sandoway (Rs. 1-0-1). The cost reported for Rangoon is Rs. 2-9-6.

SHAN STATES.—The total cost of the Vaccination Department in the Federated Shan States, as shown in Statement II, was Rs. 36,728-15-0, compared with Rs. 39,114-11-0 in 1931-32. The cost per successful case of vaccination works out at Re. 0-7-2, compared with Re. 0-9-4. The decrease was due to the larger number of vaccinations performed during the year.

16. **Illegal Inoculation.**—Forty-seven and thirty cases of inoculations were detected in Henzada and Thatôn districts, respectively. Various fines were inflicted on the culprits in Henzada, while the inoculator in Thatôn was reported to have disappeared. In Thatôn district, six parents performed arm to arm vaccination on their children. Each was fined Rs. 2 by the Township Magistrate, Thatôn. The practice of inoculation was also detected in Magwe district, but the matter was still under enquiry at the time of report.

17. **Prosecutions under the Vaccination Acts.**—Rangoon reports six prosecutions, of which two were successful, one was closed and the other three were still pending in court at the end of the year. Fifty-four parents in Amherst and three in Thatôn were reported to magistrates for refusal to submit their children to vaccination and by the orders of these courts, the children were subsequently vaccinated. In Minbu 240 persons were prosecuted and some were fined. One prosecution made in Kawkareik town is still pending in court.

18. **Vaccine Depot, Meiktila.**—The new operation theatre and operation stable were brought into use in July. They facilitate the manufacture of an increased quantity of lymph under more satisfactory working conditions. It is now possible to manufacture 4,000 grammes of lymph per month which is about four times the demand when smallpox is not present in epidemic form. There is thus ample provision for an emergency and little danger of our supply of lymph running short.

One of the water reservoirs was replaced by a new one and a second Roturbo pump was installed.

Output of Lymph.—Two hundred and forty-one cow calves and 17 buffalo calves were vaccinated during 1932-33. Three cow calves failed to take.

The following table contrasts the output and issue of lymph during the year with that of the two previous years :—

Years.	No. of calves and buffaloes scraped.	Total yield.		Average yield per calf and buffalo.		Doses issued.
		Oz.	Grms.	Grains.	Grms.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1930-31	223 calves	382·36	10,840	749·89	48·61	1,219,197
	22 buffaloes	97·56	2,766	1,940·11	125·72	
1931-32	180 calves	355·87	10,089	864·96	56·05	1,352,382
	13 buffaloes	58·48	1,658	1,967·06	127·54	
1932-33	241 calves	435·24	12,399	793·82	51·45	1,578,108
	17 buffaloes	120·31	3,411	3,096·43	200·65	

The average yield per cow calf decreased from 56·05 to 51·45 grammes. An outbreak of foot and mouth disease to some extent accounted for the decrease. The average yield per buffalo calf increased from 127·54 grammes to 200·65 grammes.

There was an opening balance of 3,500 grammes of lymph carried over from the previous year, and 15,810 grammes were manufactured during the year. Of this total of 19,310 grammes, 14,386 grammes were issued during the year, 1,132 grammes were used as seed lymph and a closing balance of 3,792 grammes has been carried over to the year 1933-34.

TECHNIQUE.—Ten rabbits were used for rejuvenating the seed lymph. As in previous years, seed lymph was passed through the modified Nijland cycle throughout the year (rabbit—cow calf—buffalo calf—rabbit). All lymph issued was subjected to Cunningham's potency test on cow calves and the Calmette Guerin potency test on rabbits. In addition, each lymph was tried on at least three children, before the lymph was issued, and an insertion success of 100 per cent. was obtained.

SUPPLY OF LYMPH.—Of the 1,578,108 doses of lymph issued, 1,522,929 were supplied to local bodies on payment and the balance of 55,179 doses were issued to Government institutions free of charge as follows :—4,956 to Military, 38,037 to Jails, 11,460 to Government vaccinators in Chin Hills District and 726 to the Borstal Training School, Thayetmyo.

QUALITY OF LYMPH.—Of 266,423 cases of primary vaccinations in 1932-33, the results of which were reported to the Depôt, a success rate of 92·9 per cent. was obtained, compared with 95·82 per cent. in 1931-32. For 118,915 revaccinations reported, the percentage of success was 41·5, compared with 36·32 in the previous year.

DRY LYMPH.—Further experiments with dry lymph during the year confirmed the previous finding that the process of drying destroys a large amount of the virus. It was also found that after a year's storage dry lymph produced very weak and small vesicles and that it is about four times more costly to produce than glycerine lymph.

FINANCE.—The total maintenance expenditure of the Depôt for the year 1932-33, was Rs. 32,972-3-0 and the total net income was 53,415-1-0, including Rs. 6,871-7-0, balance of the sale proceeds of vaccine lymph outstanding on the 31st March 1932, but excluding Rs. 7,158-4-0 balance of the sale proceeds of lymph outstanding on the 31st March 1933. The excess of income over expenditure during the year is therefore, after adjustment, Rs. 20,729-11-0.

Of the total expenditure of Rs. 32,972-3-0, a sum of Rs. 16,842-14-0 was expended on establishment, Rs. 7,574-0-0 on contingencies, Rs. 4,377-8-6 on medicines and instruments, Rs. 2,148-0-0 on the hire

of calves, Rs. 1,127-12-0 on feeding of calves and rabbits, Rs. 809-5-6 on service postage and telegrams and Rs. 92-11-0 on petty construction and repairs.

19. **Training Class.**—Owing to there being already a sufficient number of trained vaccinators in the Province no student vaccinators were trained at the Vaccine Depôt during the year 1932-33. Ninteen students undergoing the course of training for Public Health Inspectors were, however, given training in vaccination at the Depôt and seventeen passed the qualifying examination.

20. **General Remarks.**—Mr. G. H. Blaker, I.M.D., and U Myat Maung continued to hold charge of the duties of Director and Assistant Director, respectively, of the Depôt. The Depôt was visited during the year by Lieut.-Col. G. Jolly, C.I.E., I.M.S., Director of Public Health, Burma, and by Dr. J. F. Kendrick, M.D., Director, Rural Health Unit, Hlegu.

E. COTTER, *Major, I.M.S.*,
Offg. Director of Public Health, Burma.

RANGOON, 21*st August* 1933.

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A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Males.	Females.	Total.
	ARAKAN DIVISION.						
1	Akyab District	637,580	123	12	26,643	13,835	40,478
	Rural	597,242	...	10	15,338	13,404	28,742
	Urban	40,338	...	2	11,305	431	11,736
2	Arakan Hill-Tracts ...	21,418	11	3	1,736	1,144	2,880
3	Kyaukpyu District ...	220,292	46	6	7,695	6,555	14,250
	Rural	216,060	...	6	7,577	6,483	14,060
	Urban	4,232	...	...	118	72	190
4	Sandoway District ...	129,245	31	3	4,018	3,837	7,855
	Rural	125,175	...	3	3,411	3,374	6,785
	Urban	4,070	...	...	607	463	1,070
	PEGU DIVISION.						
5	Rangoon	400,415	5,200	22	47,261	11,232	58,493
6	Pegu District	489,811	119	9	14,683	14,146	28,829
	Rural	460,309	...	7	11,421	12,046	23,467
	Urban	29,502	...	2	3,262	2,100	5,362
7	Tharrawaddy District ...	508,319	181	16	23,201	25,430	48,631
	Rural	457,007	...	10	21,251	23,528	44,779
	Urban	51,312	...	6	1,950	1,902	3,852
8	Hanthawaddy District ...	408,831	212	10	16,419	13,771	30,190
	Rural	384,785	...	7	11,004	11,931	22,935
	Urban	24,046	...	3	5,415	1,840	7,255
9	Insein District	331,452	173	8	16,934	19,028	35,962
	Rural	283,505	...	5	14,754	16,828	31,582
	Urban	47,947	...	3	2,180	2,200	4,380
10	Prome District	410,651	140	12	20,558	21,133	41,691
	Rural	360,469	...	8	18,101	19,300	37,401
	Urban	50,182	...	4	2,457	1,833	4,290
	IRRAWADDY DIVISION.						
11	Bassein District ...	571,043	138	15	32,014	33,951	65,965
	Rural	514,135	...	11	28,646	30,878	59,524
	Urban	56,908	...	4	3,368	3,073	6,441

* Secondary
† Vaccinations done by private
Column 7 does not include vaccinations done by

DEPARTMENT.

Province of Burma during the year 1932-33. (Paras. 3 to 8.)

Average number of persons vaccinated by each vaccinator. (7)	Primary Vaccination. Total. (8)	Successful. Under one year. (9)	Successful. One and under six years. (10)	Successful. Total of all ages. (11)	Unknown. (12)	No. (1)
3,373	17,860	2,714	10,636	16,055	740	1
2,874	16,596	2,234	10,470	15,017	547	
5,868	1,264	480	166	1,038	193	
848	†1,245	31	451	909	170	2
2,375	10,514	1,732	4,562	8,788	708	3
2,343	10,358	1,671	4,509	8,663	704	
...	156	61	53	125	4	
2,618	*4,591	1,021	1,996	3,799	357	4
2,262	4,434	954	1,955	3,680	336	
...	†157	67	41	119	21	
2,627	†9,548	5,515	1,468	7,219	2,243	5
3,203	19,564	6,278	9,046	17,843	1,614	6
3,352	17,003	4,848	8,518	15,554	1,444	
2,681	2,561	1,430	528	2,289	170	
3,035	†33,667	7,996	19,818	33,079	583	7
4,478	†31,895	7,074	19,170	31,356	537	
631	†1,772	922	648	1,723	46	
3,019	19,407	5,561	10,661	18,541	486	8
3,276	18,427	5,096	10,277	17,596	476	
2,418	980	465	384	945	10	
4,430	†21,421	5,381	10,627	20,216	900	9
6,309	†18,704	4,106	9,218	17,502	897	
1,298	†2,717	1,275	1,409	2,714	3	
3,474	24,709	8,154	14,421	24,138	431	10
4,675	22,170	6,736	13,461	21,721	356	
1,073	2,539	1,418	960	2,417	75	
4,342	†48,730	7,447	26,356	45,452	2,461	11
5,335	†45,666	5,829	25,360	42,554	2,307	
1,610	3,064	1,618	996	2,898	154	

operations included.
practitioners and dispensaries included.
private practitioners and dispensaries.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	ARAKAN DIVISION.						
1	Akyab District	22,618	5,016	4,247	93·78	27·30	33·05
	Rural	12,146	1,610	883	93·57	14·29	27·84
	Urban	10,472	3,406	3,364	96·92	47·92	110·17
2	Arakan Hill-Tracts ...	† 1,635	685	287	84·56	50·82	74·42
3	Kyaukpyu District ...	3,736	884	882	89·62	30·97	43·91
	Rural	3,702	870	876	89·73	30·79	44·12
	Urban	34	14	6	82·24	50·00	32·84
4	Sandoway District ...	3,266	167	719	89·73	6.56	30·69
	Rural	2,351	79	440	89·80	4·14	30·03
	Urban	915	88	279	87·50	13·84	50·86
	PEGU DIVISION.						
5	Rangoon	†48,945	7,073	23,677	98·82	27·99	35·69
6	Pegu District	9,265	1,898	2,315	99·40	27·31	40·30
	Rural	6,464	742	1,571	99·97	15·16	35·40
	Urban	2,801	1,156	744	95·73	56·20	116·77
7	Tharrawaddy District ...	‡14,964	4,498	4,413	99·98	42·63	73·92
	Rural	12,884	3,658	3,966	99·99	41·02	76·62
	Urban	2,080	840	447	99·83	51·44	49·95
8	Hanthawaddy District ...	10,783	1,787	534	97·99	17·44	49·72
	Rural	4,508	1,154	309	98·02	27·48	48·73
	Urban	6,275	633	225	97·42	10·46	65·62
9	Insein District	† 14,541	2,819	2,661	98·51	23·73	69·50
	Rural	† 12,878	2,411	2,654	98·29	23·58	70·24
	Urban	1,663	408	7	100·00	24·64	65·11
10	Prome District	16,982	4,197	2,517	99·42	29·01	69·00
	Rural	15,231	3,321	2,293	99·57	25·67	69·47
	Urban	1,751	876	224	98·09	57·37	65·62
	IRRAWADDY DIVISION.						
11	Bassein District ...	† 17,235	4,599	4,587	98·23	36·36	87·65
	Rural	† 13,858	3,522	3,871	98·14	35·27	89·62
	Urban	3,377	1,077	716	99·59	40·47	69·85

† Vaccinations done by private

DEPARTMENT.

Province of Burma during the year 1932-33—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
4·14	18·78	32,158	54·62	321	0·55	1
3·30	7·27	...	...	...	...	
15·27	32·12	...	...	...	...	
13·65	17·55	1,759	83·72	...	...	2
6·73	23·61	8,883	43·56	6	0·03	3
6·80	23·66	...	...	...	...	
2·56	17·65	...	...	...	...	
7·78	22·01	3,256	28·20	3	0·03	4
7·58	18·72	...	...	...	...	
13·38	30·49	...	...	...	...	
23·49	48·37	21,202	59·47	126	0·35	5
8·25	24·99	18,719	41·19	59	0·13	6
8·49	24·30	...	...	...	...	
6·64	26·56	...	...	...	...	
17·32	29·49	24,260	48·95	16	0·03	7
1·68	30·78	...	...	...	...	
2·60	21·49	...	...	...	...	
2·50	4·95	17,000	45·52	19	0·05	8
2·58	6·85	...	...	...	...	
1·02	3·59	...	...	...	...	
4·20	18·30	13,971	46·90	20	0·07	9
4·80	20·61	...	...	...	...	
0·11	0·42	...	...	...	...	
1·74	14·82	26,184	69·02	38	0·10	10
1·61	15·05	...	...	...	...	
2·95	12·79	...	...	...	...	
5·05	26·61	24,197	47·84	7	0·01	11
5·05	27·93	...	...	...	...	
5·03	21·20	...	...	...	...	

practitioners and dispensaries included.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Males.	Females.	Total.
	IRRAWADDY DIVISION—*concld.*						
12	Henzada District ...	613,280	220	15	21,450	23,022	44,472
	Rural	568,886	...	12	17,651	19,209	36,860
	Urban	44,394	...	3	3,799	3,813	7,612
13	Myaungmya District ...	444,784	158	15	29,501	30,887	60,388
	Rural	419,905	...	12	26,609	28,188	54,797
	Urban	24,879	...	3	2,892	2,699	5,591
14	Maubin District	371,509	226	12	17,332	18,098	35,430
	Rural	346,353	...	9	15,848	16,924	32,772
	Urban	25,156	...	3	1,484	1,174	2,658
15	Pyapon District	334,158	161	10	16,171	16,824	32,995
	Rural	311,162	...	8	15,487	16,217	31,704
	Urban	22,996	...	2	684	607	1,291
	TENASSERIM DIVISION.						
16	Salween District ...	53,186	21	4	4,245	2,929	7,174
17	Thaton District ...	532,628	109	13	13,673	13,919	27,592
	Rural	509,166	...	12	12,305	13,302	25,607
	Urban	23,462	...	1	1,368	617	1,985
18	Amherst District... ...	516,233	70	11	18,076	17,014	35,090
	Rural	444,152	...	8	13,553	13,930	27,483
	Urban	72,081	...	3	4,523	3,084	7,607
19	Tavoy District	179,964	33	6	10,130	12,104	22,234
	Rural	150,946	...	4	6,789	7,740	14,529
	Urban	29,018	...	2	3,341	4,364	7,705
20	Mergui District	161,987	15	5	6,782	5,950	12,732
	Rural	141,582	...	4	5,453	5,253	10,706
	Urban	20,405	...	1	1,329	697	2,026
21	Toungoo District ...	428,828	66	13	10,328	10,238	20,566
	Rural	391,922	...	10	9,406	9,333	18,739
	Urban	36,906	...	3	922	905	1,827
	MAGWE DIVISION.						
22	Thayetmyo District ...	274,177	59	8	11,975	12,598	24,573
	Rural	252,387	...	6	10,288	11,418	21,706
	Urban	21,790	...	2	1,687	1,180	2,867
23	Minbu District	277,876	77	6	9,446	8,003	17,449
	Rural	265,217	...	5	6,095	6,284	12,379
	Urban	12,659	...	1	3,351	1,719	5,070

* Secondary

† Vaccinations done by private

Column 7 does not include vaccinations done by

DEPARTMENT.

Province of Burma during the year 1932-33—contd.

Average number of persons vaccinated by each vaccinator. (7)	Primary Vaccination. Total. (8)	Successful. Under one year. (9)	Successful. One and under six years. (10)	Successful. Total of all ages. (11)	Unknown. (12)	No. (1)
2,909	31,446	9,245	18,081	30,636	673	12
3,072	29,862	7,959	17,795	29,053	673	
2,260	1,584	1,286	286	1,583	...	
3,618	† 38,135	5,158	19,062	33,436	2,180	13
4,057	†35,736	4,333	18,158	31,128	2,094	
1,864	2,399	825	904	2,308	86	
2,949	25,459	5,470	14,413	24,380	766	14
3,641	24,119	4,844	13,936	23,120	694	
872	1,340	626	477	1,260	72	
3,300	*23,873	4,162	18,537	23,766	77	15
3,963	*22,976	3,727	18,148	22,911	35	
646	897	435	389	855	42	
1,794	*3,998	136	489	3,118	738	16
2,122	18,519	5,895	8,303	16,026	1,394	17
2,134	17,791	5,346	8,185	15,344	1,382	
1,985	728	549	118	682	12	
3,187	*†23,737	6,600	10,326	22,300	1,076	18
3,435	21,699	4,721	10,283	20,378	1,069	
2,524	*†2,038	1,879	43	1,922	7	
3,706	*7,209	4,606	2,334	6,959	9	19
3,632	*6,087	3,660	2,218	5,878	9	
3,853	1,122	946	116	1,081	...	
2,546	9,980	1,105	4,668	7,199	585	20
2,677	8,744	622	4,250	6,117	556	
2,026	1,236	483	418	1,082	29	
1,582	13,379	2,596	6,993	12,681	217	21
1,874	12,098	1,905	6,492	11,430	202	
609	1,281	691	501	1,251	15	
3,072	*12,142	2,939	6,919	9,858	2,049	22
3,618	11,003	2,337	6,447	8,784	2,020	
1,434	*1,139	602	472	1,074	29	
2,908	*10,498	1,892	6,855	8,986	636	23
2,476	*9,805	1,588	6,510	8,337	623	
5,070	693	304	345	649	13	

operations included.
practitioners and dispensaries included.
private practitioners and dispensaries.

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population
		Total.	Successful.	Unknown.	Primary.	Re-vaccination	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	IRRAWADDY DIVISION—*concld.*						
12	Henzada District	† 13,026	1,493	2,325	99·55	13·95	52·39
	Rural	6,998	1,303	1,422	99·53	23·37	53·36
	Urban	† 6,028	190	903	99·94	3·71	39·94
13	Myaungmya District ...	22,252	5,036	4,767	92·99	28·80	86·50
	Rural	19,061	4,372	4,277	92·53	29·57	84·54
	Urban	3,192	664	490	99·78	24·57	119·46
14	Maubin District	† 9,971	951	648	98·73	10·20	68·18
	Rural	8,653	807	519	98·70	9·92	69·08
	Urban	† 1,318	144	129	99·37	12·11	55·81
15	Pyapon District	9,152	1,640	330	99·87	18·59	76·03
	Rural	8,758	1,607	282	99·87	18·96	78·79
	Urban	394	33	48	100·00	9·54	38·62
	TENASSERIM DIVISION.						
16	Salween District ...	* 3,213	685	621	95·64	26·43	71·50
17	Thaton District ...	9,073	1,518	1,568	93·59	20·23	32·94
	Rural	7,816	1,059	1,311	93·51	16·28	32·22
	Urban	1,257	459	257	95·25	45·90	48·63
18	Amherst District ...	11,379	3,776	1,245	98·41	37·26	50·51
	Rural	5,784	641	649	98·78	12·48	47·32
	Urban	5,595	3,135	596	94·63	62·71	70·16
19	Tavoy District	15,054	8,396	760	96·65	58·74	85·32
	Rural	8,471	4,303	557	96·71	54·37	67·45
	Urban	6,583	4,093	203	96·35	64·15	178·30
20	Mergui District	2,752	1,362	419	76·63	58·38	52·85
	Rural	1,962	940	342	74·71	58·02	49·84
	Urban	790	422	77	89·64	59·19	73·71
21	Toungoo District ...	7,187	1,094	829	96·35	17·21	32·12
	Rural	6,641	941	792	96·08	16·09	31·56
	Urban	546	153	37	98·82	30·06	38·04
	MAGWE DIVISION.						
22	Thayetmyo District ...	12,435	3,301	4,642	97·67	42·36	47·99
	Rural	10,703	2,797	4,409	97·78	44·44	45·89
	Urban	1,732	504	233	96·76	33·62	72·42
23	Minbu District	7,452	3,242	1,257	91·12	52·33	44·01
	Rural	3,075	1,228	537	90·80	48·38	36·06
	Urban	4,377	2,014	720	95·44	55·07	210·36

* Secondary
† Vaccinations done by private

DEPARTMENT.

Province of Burma during the year 1932-33—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
2·14	17·85	27,961	49·63	30	0·05	12
2·25	20·32	...	...	...	...	
...	14·98	...	...	...	...	
5·72	21·42	25,493	66·15	1	0·00	13
5·86	22·44	...	...	...	...	
3·58	15·35	...	...	...	...	
3·01	6·50	20,854	61·63	10	0·03	14
2·88	6·00	...	...	...	...	
5·37	9·79	...	...	...	...	
0·32	3·61	20,198	67·77	25	0·09	15
0·15	3·22	...	...	...	...	
4·68	12·18	...	...	...	...	
18·46	19·33	3,919	76·93	...	...	16
7·53	17·28	18,818	38·93	17	0·04	17
7·77	16·77	...	...	...	...	
1·65	20·45	...	...	...	...	
4·53	10·94	24,605	56·23	83	0·19	18
4·93	11·22	...	...	...	...	
0·34	10·65	...	...	...	...	
0·12	5·05	8,176	50·65	1	0·00	19
0·15	6·58	...	...	...	...	
...	3·08	...	...	...	...	
5·86	15·23	7,187	51·06	...	...	20
6·36	17·43	...	...	...	...	
2·35	9·75	...	...	...	...	
1·62	11·53	17,235	44·05	135	0·35	21
1·67	11·93	...	...	...	...	
1·17	6·78	...	...	...	...	
16·88	37·33	9,938	38·35	42	0·16	22
18·36	41·19	...	...	...	...	
2·55	13·45	...	...	...	...	
6·06	16·87	10,038	36·50	1	0·00	23
6·35	17·46	...	...	...	...	
1·88	16·45	...	...	...	...	

operations included.
practitioners and dispensaries included.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Male.	Female.	Total
	MAGWE DIVISION—*concld.*						
24	Magwe District	499,573	134	11	14,579	13,781	28,360
	Rural	459,097	...	7	12,242	11,886	24,128
	Urban	40,476	...	4	2,337	1,895	4,232
25	Pakôkku District ...	499,181	93	9	12,441	12,983	25,424
	Rural	476,066	...	8	11,587	12,314	23,901
	Urban	23,115	...	1	854	669	1,523
26	Chin Hills District ...	171,237	17	6	6,691	4,795	11,486
	MANDALAY DIVISION.						
27	Mandalay District ...	371,636	176	10	36,992	33,943	70,935
	Rural	196,687	...	5	7,918	8,866	16,784
	Urban	174,949	...	5	29,074	25,077	54,151
28	Kyauksè District ...	151,320	122	5	7,146	7,535	14,681
	Rural	143,967	...	4	6,413	6,915	13,328
	Urban	7,353	...	1	733	620	1,353
29	Meiktila District	309,999	139	7	12,587	15,011	27,598
	Rural	300,804	...	6	12,222	14,669	26,891
	Urban	9,195	...	1	365	342	707
30	Myingyan District ...	472,557	174	12	14,972	15,107	30,079
	Rural	438,982	...	10	13,539	13,679	27,218
	Urban	33,575	...	2	1,433	1,428	2,861
31	Yamèthin District ...	390,820	93	7	18,567	20,314	38,881
	Rural	357,713	...	5	15,709	18,028	33,737
	Urban	33,107	...	2	2,858	2,286	5,144
	SAGAING DIVISION.						
32	Bhamo District	121,193	29	4	7,533	8,643	16,176
	Rural	113,182	...	3	6,927	7,651	14,578
	Urban	8,011	...	1	606	992	1,598
33	Myitkyina District ...	171,524	14	4	4,531	3,717	8,248
	Rural	164,196	...	3	4,130	3,467	7,597
	Urban	7,328	...	1	401	250	651
34	Shwebo District ...	446,790	78	13	18,985	21,093	40,078
	Rural	431,765	...	11	17,723	19,983	37,706
	Urban	15,025	...	2	1,262	1,110	2,372

* Secondary

† Vaccinations done by private

Column 7 does not include vaccinations done by

DEPARTMENT.

Province of Burma during the year 1932-33—contd.

Average number of persons vaccinated by each vaccinator. (7)	Primary Vaccination. Total. (8)	Successful. Under one year. (9)	Successful. One and under six years. (10)	Successful. Total of all ages. (11)	Unknown. (12)	No. (1)
2,578	17,000	7,286	6,760	16,222	541	24
3,447	14,537	6,092	5,958	13,847	483	
1,058	2,463	1,194	802	2,375	58	
2,546	†16,927	6,800	7,002	14,944	595	25
2,674	†15,993	6,081	6,954	14,078	557	
1,523	934	719	48	866	38	
1,914	*9,129	117	3,792	6,045	1,018	26
7,010	*†17,947	10,100	4,611	15,935	1,558	27
3,357	*8,052	1,951	3,455	6,182	1,485	
10,662	*†9,895	8,149	1,156	9,753	73	
2,936	*5,727	3,078	2,304	5,607	95	28
3,332	*5,376	2,824	2,236	5,285	77	
1,353	351	254	68	322	18	
3,931	†12,309	3,368	6,475	10,449	1,271	29
4,482	11,860	3,077	6,339	10,010	1,261	
628	449	291	136	439	10	
2,507	*25,537	9,864	9,098	20,798	2,160	30
2,722	*23,425	9,033	8,731	19,297	1,721	
1,431	*2,112	831	367	1,501	439	
5,554	16,682	5,024	6,301	13,970	1,845	31
6,747	14,940	3,923	5,875	12,431	1,737	
2,572	1,742	1,101	426	1,539	108	
3,970	11,006	1,057	3,525	8,724	2,269	32
4,760	†10,460	860	3,186	8,188	2,269	
1,598	546	197	339	536	...	
1,655	†5,102	557	1,436	2,589	2,223	33
1,989	†4,687	409	1,289	2,204	2,199	
651	415	148	147	385	24	
3,083	20,290	6,310	10,261	18,509	1,026	34
3,428	19,510	5,754	10,111	17,791	998	
1,186	780	556	150	718	28	

operations included.
practitioners and dispensaries included.
private practitioners and dispensaries.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in the*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	MAGWE DIVISION—*concld.*						
24	Magwe District	11,360	2,631	1,512	98·56	26·72	37·74
	Rural	9,591	2,140	1,247	98·53	25·65	34·82
	Urban	1,769	491	265	98·75	32·65	70·81
25	Pakôkku District ...	† 8,497	1,025	188	91·50	12·34	31·99
	Rural	† 7,908	905	151	91·20	11·67	31·47
	Urban	589	120	37	96·65	21·74	42·66
26	Chin Hills District ...	2,357	941	145	74·53	42·54	40·80
	MANDALAY DIVISION.						
27	Mandalay District ...	† 53,289	17,462	5,221	97·23	36·33	89·86
	Rural	8,994	2,266	2,427	94·14	34·51	42·95
	Urban	† 44,295	15,196	2,794	99·30	36·62	142·61
28	Kyauksè District ...	* 9,014	3,595	1,377	99·56	47·07	60·81
	Rural	* 8,012	2,939	1,326	99·74	43·96	57·12
	Urban	1,002	656	51	96·70	68·98	133·01
29	Meiktila District ...	†15,289	2,486	2,268	94·66	19·09	41·73
	Rural	15,031	2,425	2,210	94·44	18·91	41·34
	Urban	† 258	61	58	100·00	30·50	54·38
30	Myingyan District ...	5,226	525	1,129	88·97	12·81	45·12
	Rural	4,291	498	695	88·91	13·85	45·09
	Urban	935	27	434	89·72	5·39	45·51
31	Yamèthin District ...	22,199	5,081	6,420	94·16	32·20	48·75
	Rural	18,797	4,260	5,167	94·15	31·25	46·66
	Urban	3,402	821	1,253	94·19	38·20	71·28
	SAGAING DIVISION.						
32	Bhamo District	† 5,170	1,809	2,637	99·85	71·42	86·91
	Rural	† 4,118	1,481	2,637	99·96	100·00	85·43
	Urban	1,052	328	...	98·17	31·18	107·85
33	Myitkyina District ...	† 3,146	859	1,061	89·93	41·20	20·10
	Rural	† 2,910	658	1,043	88·59	35·24	17·43
	Urban	236	201	18	98·48	92·20	79·97
34	Shwebo District ...	19,788	9,475	3,092	96·08	56·75	62·63
	Rural	18,196	8,858	2,815	96·11	57·59	61·72
	Urban	1,592	617	277	95·48	46·92	88·85

* Secondary
† Vaccinations done by private

DEPARTMENT.

Province of Burma during the year 1932-33—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
3·18	13·31	17,781	40·55	88	0·20	24
3·32	13·00	...	...	...	...	
3·48	14·98	...	...	...	...	
3·52	2·21	13,980	29·59	48	0·10	25
2·23	1·91	...	...	...	...	
4·07	6·28	...	...	...	...	
11·15	6·15	7,191	51·98	...	...	26
8·68	9·80	19,700	54·78	45	0·12	27
18·44	26·98	...	...	...	...	
0·74	6·31	...	...	...	...	
1·66	15·28	6,994	48·43	4	0·03	28
1·43	16·55	...	...	...	...	
5·13	5·09	...	...	...	...	
10·33	14·83	11,472	39·03	11	0·04	29
10·63	14·70	...	...	...	...	
2·23	22·48	...	...	...	...	
8·46	21·60	14,467	32·14	182	0·41	30
7·35	16·20	...	...	...	...	
20·79	46·42	...	...	...	...	
11·06	28·92	18,967	56·33	52	0·15	31
11·63	27·49	...	...	...	...	
6·20	36·83	...	...	...	...	
20·62	51·01	3,321	28·98	...	...	32
21·69	64·04	...	...	...	...	
...	...	...	...	...	...	
43·57	33·73	2,821	18·66	...	...	33
46·92	35·84	...	...	...	...	
5·78	7·63	...	...	...	...	
5·06	15·63	19,381	48·99	39	0·10	34
5·12	15·47	...	...	...	...	
3·59	17·40	...	...	...	...	

operations included.
practitioners and dispensaries included.

A.—VACCINATION

STATEMENT NO. I—*Showing the particulars of Vaccination in*

No.	Divisions and Districts.	Population of districts according to Census of 1931.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
	SAGAING DIVISION—*concld.*				Male.	Female.	Total.
35	Sagaing District	335,965	179	8	14,747	17,688	32,435
	Rural	316,766	...	6	12,739	15,865	28,604
	Urban	19,199	...	2	2,008	1,823	3,831
36	Katha District	254,170	33	6	8,365	8,764	17,129
37	Upper Chindwin District ...	204,982	14	7	10,078	10,388	20,466
	Rural	202,704	...	7	9,593	10,030	19,623
	Urban ...	2,278	...	...	485	358	843
38	Lower Chindwin District ...	383,434	104	8	18,362	21,888	40,250
	Rural	372,634	...	7	17,573	21,242	38,815
	Urban	10,800	...	1	789	646	1,435
	Total for 1932-33 ...	13,102,048	77	351	586,847	551,298	1,138,145
	Rural ...	11,674,939	...	258	440,339	467,797	908,136
	Urban ...	1,427,109	...	93	146,508	83,501	230,009
	FEDERATED SHAN STATES.						
	Northern Shan States ...	636,107	30	20	36,442	34,330	70,772
	Rural	631,469	...	20	35,907	33,996	69,903
	Urban	4,638	...	...	535	334	869
	Southern Shan States ...	928,991	23	22	26,108	24,089	50,197
	Rural	916,718	...	20	23,750	22,354	46,104
	Urban	12,273	...	2	2,358	1,735	4,093
	Total for 1932-33 ...	1,565,098	25	42	62,550	58,419	120,969
	Rural ...	1,548,187	...	40	59,657	56,350	116,007
	Urban ...	16,911	...	2	2,893	2,069	4,962

* Secondary
† Vaccinations done by private
Column 7 does not include vaccinations

DEPARTMENT.

the Province of Burma during the year 1932-33—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
4,054	*17,128	4,883	8,651	14,075	2,290	35
4,767	*15,656	4,312	7,903	12,732	2,202	
1,916	1,472	571	748	1,343	88	
2,855	* 11,629	2,166	6,149	10,997	362	36
2,900	†9,925	1,607	4,446	8,438	234	37
2,780	†9,672	1,560	4,353	8,273	219	
...	253	47	93	165	15	
5,031	* 11,680	4,850	4,782	9,982	538	38
5,545	* 11,305	4,572	4,743	9,661	504	
1,435	* 375	278	39	321	34	
3,200	* † 637,649	168,701	312,675	572,668	39,118	
3,474	* † 576,647	132,488	297,374	517,171	34,961	
2,440	* † 01,002	36,213	15,241	55,497	4,157	
3,420	†49,467	4,851	14,855	35,346	13,816	
3,376	† 49,213	4,729	14,774	35,097	13,811	
...	254	122	81	249	5	
2,269	†38,201	3,202	25,288	34,879	2,649	
2,291	† 37,455	2,957	25,028	34,277	2,515	
2,047	746	245	260	602	134	
2,817	† 87,668	8,053	40,143	70,225	16,465	
2,834	† 86,668	7,686	39,802	69,374	16, 326	
2,481	1,000	367	341	851	139	

operations included.
practitioners and dispensaries included.
done by private practitioners and dispensaries

A.—VACCINATION

STATEMENT No. I—*Showing the particulars of Vaccination in*

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	SAGAING DIVISION—*concld.*						
35	Sagaing District	15,450	4,805	3,941	94·86	41·75	56·20
	Rural	13,082	3,720	3,330	94·63	38·15	51·94
	Urban	2,368	1,085	611	97·04	61·75	126·46
36	Katha District	5,519	1,544	445	97·60	30·43	49·34
37	Upper Chindwin District ...	†10,541	4,348	487	87·07	43·25	62·38
	Rural	† 9,951	4,311	413	87·52	45·20	62·08
	Urban	590	37	74	69·33	7·17	88·57
38	Lower Chindwin District ...	28,741	11,039	4,131	89·95	44·86	54·82
	Rural	27,680	10,798	3,985	89·45	45·57	54·90
	Urban	1,061	241	146	94·13	26·34	52·04
	Total for 1932-33 ...	* † 502,503	133,742	100,304	95·68	33·25	53·92
	Rural ...	* † 333,229	86,479	60,904	95·47	31·76	51·70
	Urban ...	† 169,274	47,263	39,400	97·63	36·39	72·01
	FEDERATED SHAN STATES.						
	Northern Shan States ...	†21,305	9,760	6,179	99·14	64·52	70·91
	Rural	† 20,690	9,615	6,170	99·14	66·22	70·81
	Urban	615	145	9	100·00	23·93	84·95
	Southern Shan States ...	†11,996	3,317	2,018	98·10	33·24	41·12
	Rural	† 8,649	2,405	344	98·10	28·96	40·01
	Urban	3,347	912	1,674	98·37	54·51	123·36
	Total for 1932-33 ...	† 33,301	13,077	8,197	98·62	52·09	53·22
	Rural ...	† 29,339	12 020	6,514	98·62	52·66	52·57
	Urban ...	3,962	1,057	1,683	98·84	46·38	112·83

* Secondary
† Vaccinations done by private
Column 18 includes
This statement does not include

DEPARTMENT.

the Province of Burma during the year 1932-33—concld.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
13·37	25·51	20,776	63·20	71	0·22	35
14·06	25·45	...	...	...	...	
5·98	25·80	...	...	...	...	
3·11	8·06	11,763	49·47	...	...	36
2·36	4·62	7,918	42·94	...	...	37
2·26	4·15	...	...	...	...	
5·93	12·54	...	...	...	...	
4·61	14·37	15,573	43·53	56	0·16	38
4·46	14·40	...	...	...	...	
9·07	13·76	...	...	...	...	
6·13	19·96	578,116	48·26	1,556	0·14	
6·06	18·28	...	...	...	...	
6·81	23·28	...	...	...	...	
27·93	29·00	33,341	58·03	...	...	
28·06	29·82	...	...	...	...	
1·97	1·46	...	...	...	...	
6·93	16·82	30,485	33·32	...	...	
6·71	3·98	...	...	...	...	
17·96	50·01	...	...	...	...	
18·78	24·61	63,826	42·85	...	...	
18·84	22·20	...	...	...	...	
13·90	42·48	...	...	...	...	

operations included.
practitioners and dispensaries included.
revaccination successful cases.
jail and ship vaccinations.

SUM

	Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which results were known.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Vaccination by Special Staff ...	630,137	493,009	632,094	493,059	95·97	27·23
Dispensary Vaccination ...	2,020	6,241	2,020	6,241	90·32	23·85
Vaccination by private practitioners	3,535	3,203	3,535	3,203	38·66	28·24
Total ...	635,692	502,453	637,649	502,503	95·68	33·25
Shan States ...	87,668	33,301	87,668	33,301	98·62	52·09

MARY (Paragraphs 10 and 12).

Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.		Ratio of successful vaccination per 1,000 population.	Total cost of Department.	Average cost of each successful case.
Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One year and under six years.			
(8)	(9)	(10)	(11)	(12)	(13)	(14)
					Rs. A. P.	Rs. A. P.
351	3,200	168,145	310,771	53·68	4,33,526 9 7	0 9 10
...	...	76	294	0·10	...	...
...	...	480	1,550	0·13	...	...
351	3,200	168,701	312,615	53·92	...	...
42	2,817	8,053	40,143	53·22	36,728 15 0	0 7 2

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department in the*

No.	Divisions and Districts.	District Health Officers.	EX Pay.	Inspector of Vaccination.	Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
	ARAKAN DIVISION.				
1	Akyab	...	...	4	1,230 0 0
2	Arakan Hill Tracts ...	...	...	...	...
3	Kyaukpyu	...	...	1	936 15 0
4	Sandoway	...	...	2	1,014 7 0
	PEGU DIVISION.				
5	Rangoon	...	...	1	...
6	Pegu	...	...	2	2,460 0 0
7	Tharrawaddy	...	...	6	1,692 11 0
8	Hanthawaddy	...	...	5	4,356 12 0
9	Insein	...	...	9	3,543 12 0
10	Prome	...	...	4	...
	IRRAWADDY DIVISION.				
11	Bassein	...	...	6	2,560 2 0
12	Henzada	...	...	4	2,794 10 0
13	Myaungmya	...	...	5	3,574 8 0
14	Maubin	...	...	4	2,642 5 0
15	Pyapôn	...	...	4	2,174 1 0
	TENASSERIM DIVISION.				
16	Salween	...	...	1	1,066 12 0
17	Thatôn	...	...	3	2,180 1 0
18	Amherst	...	...	6	4,092 1 0
19	Tavoy	...	...	1	1,296 0 0
20	Mergui	...	...	1	731 2 0
21	Toungoo	...	...	4	2,266 12 0
	MAGWE DIVISION.				
22	Thayetmyo	...	...	2	996 3 0
23	Minbu	...	...	6	3,266 1 0
24	Magwe	...	...	4	1,117 8 0
25	Pakôkku	...	...	1	1,457 15 0
26	Chin Hills	...	...	1	1,209 11 0

DEPARTMENT.

Province of Burma during the year 1932-33 (Paragraphs 1 and 15).

penditure.

Vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	Total Pay of Establishment.	Travelling Allowance.	No.
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(1)
	Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	
12	5,824 14 0	...	...	...	...	7,054 14 0	3,316 14 0	1
3	1,701 10 0	..	...	...	...	1,701 10 0	694 5 0	2
6	2,544 9 0	...	...	...	...	3,481 8 0	1,994 4 0	3
3	1,375 14 0	...	...	...	...	2,390 5 0	1,126 10 0	4
22	29,313 0 0	...	...	2	386 2 0	29,699 2 0	1,455 3 0	5
9	5,247 15 0	...	...	...	...	7,707 15 0	3,381 8 0	6
16	7,496 9 2	...	...	1	180 0 0	9,369 4 2	4,883 14 9	7
10	4,331 11 0	...	...	...	...	8,688 7 0	6,152 11 0	8
8	5,209 11 0	...	...	...	...	8,753 7 0	3,829 2 0	9
12	5,508 14 0	...	...	...	...	5,508 14 0	2,307 14 6	10
15	6,559 12 0	...	...	...	...	9,119 14 0	4,074 8 0	11
15	6,653 10 0	...	...	...	...	9,448 4 0	4,292 4 0	12
15	6,275 12 0	...	...	2	329 11 0	10,179 15 0	6,230 2 0	13
12	4,857 6 0	...	...	...	...	7,499 11 0	2,733 3 0	14
10	4,348 0 0	...	...	...	...	6,522 1 0	3,651 7 0	15
4	1,800 6 0	...	...	...	...	2,867 2 0	1,820 9 0	16
13	5,895 11 0	...	...	...	...	8,075 12 0	2,901 2 0	17
11	5,689 6 0	...	...	1	180 0 0	9,961 7 0	4,288 4 0	18
6	2,707 11 0	...	...	...	...	4,003 11 0	2,544 2 0	19
5	3,109 15 0	...	...	...	...	3,841 1 0	1,693 13 0	20
13	5,968 7 0	...	...	...	...	8,235 3 0	2,531 14 0	21
8	3,414 9 0	...	...	...	...	4,410 12 0	2,316 0 0	22
6	2,897 11 0	...	...	3	280 12 0	6,444 8 0	2,549 10 0	23
11	5,412 5 0	...	...	1	180 0 0	6,709 13 0	2,932 12 9	24
9	4,248 14 6	...	...	1	141 5 0	5,848 2 6	3,306 0 0	25
6	3,430 11 0	...	...	1	126 0 0	4,766 6 0	2,037 9 0	26

A.—VACCINATION

STATEMENT No. II—*Showing the cost of the Department*

No.	Divisions and Districts.	District Health Officers.	Pay.	Inspector of Vaccination.	Pay.	Ex
(1)	(2)	(3)	(4)	(5)	(6)	
			Rs. A. P.		Rs. A. P	
	MANDALAY DIVISION.					
27	Mandalay	...	...	4	1,569 0 0	
28	Kyauksè	...	...	1	996 0 0	
29	Meiktila	...	...	2	...	
30	Myingyan	...	...	4	2,273 0 0	
31	Yamèthin	...	...	2	1,293 12 0	
	SAGAING DIVISION.					
32	Bhamo	...	...	...	...	
33	Myitkyina	...	...	...	...	
34	Shwebo	...	...	4	1,290 0 0	
35	Sagaing	...	...	1	999 0 0	
36	Katha	...	...	2	2,813 4 0	
37	Upper Chindwin	...	...	2	2,762 14 0	
38	Lower Chindwin	...	...	1	96 0 0	
	OTHERS.					
39	Meiktila Vaccine Depôt ...	2	13,759 8 0	...	...	
40	Office of Director of Public Health, Burma.	...	...	...	...	
	TOTAL ...	2	13,759 8 0	(a) 110	62,753 3 0	
	FEDERATED SHAN STATES.					
	Northern Shan States ...	...	...	...	...	
	Southern Shan States ...	...	...	4	3,714 0 0	
	TOTAL ...	...	...	(b) 4	3,714 0 0	

(a) This includes 30 Sub-Assistant Surgeons, one Medical Registrar at Moulmein one Assistant Superintendent

DEPARTMENT.

in the Province of Burma during the year 1932-33—contd.

penditure.

Vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	Total Pay of Establishment.	Travelling Allowance.	No.
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(1)
	Rs. A. P.		Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	
10	6,989 3 3	...	...	...	...	8,558 3 3	1,764 5 0	27
5	2,341 6 0	...	...	...	...	3,337 6 0	1,625 13 0	28
7	2,850 14 0	...	...	...	...	2,850 14 0	966 11 0	29
12	4,857 3 6	...	...	2	420 0 0	7,550 3 6	4,054 13 6	30
7	3,849 8 9	...	...	...	...	5,143 4 9	2,149 10 0	31
4	2,119 15 0	...	...	...	...	2,119 15 0	736 5 0	32
4	2,261 10 0	...	...	...	...	2,261 10 0	657 4 0	33
13	6,559 0 0	...	...	...	...	7,849 0 0	2,674 7 0	34
8	3,352 11 0	...	...	...	...	4,351 11 0	1,090 6 0	35
6	3,241 0 0	...	...	...	...	6,054 4 0	2,405 6 0	36
7	4,031 3 0	...	...	1	268 8 0	7,062 9 0	3,036 4 0	37
8	3,588 14 0	...	...	...	...	3,684 14 0	1,790 8 0	38
...	...	3	2,193 11 0	16	4,337 12 0	20,290 15 0	...	39
...	...	...	...	...	...	...	...	40
351	1,87,867 6 2	3	2,193 11 0	31	6,830 2 0	2,73,403 14 2	1,01,987 6 6	
20	8,997 11 0	...	...	...	...	8,997 11 0	4,631 9 0	
22	9,569 9 0	...	...	7	1,714 8 0	14,998 1 0	3,655 6 0	
42	18,567 4 0	...	...	7	1,714 8 0	23,995 12 0	8,286 15 0	

of Vaccination at Bassein and 48 Public Health Inspectors.

(*b*) This includes 3 Head Vaccinators.

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure.								
		Contingencies.			Total Cost.			Deputy Commissioner's Local Funds.			Provincial Funds.		
(1)	(2)	(15)			(16)			(17)			(18)		
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
	ARAKAN DIVISION.												
1	Akyab	2,366	0	0	12,737	12	0	911	14	0	...		
2	Arakan Hill Tracts ...	153	6	0	2,549	5	0	2,549	5	0	...		
3	Kyaukpyu	658	10	0	6,134	6	0	5,921	2	0	...		
4	Sandoway	470	3	0	3,987	2	0	3,724	0	0	...		
	PEGU DIVISION.												
5	Rangoon	5,514	12	3	36,669	1	3	...			669	12	0
6	Pegu	1,143	5	0	12,232	12	0	...			...		
7	Tharrawaddy	1,461	1	0	15,714	3	11	...			...		
8	Hanthawaddy	1,159	12	0	16,000	14	0	...			...		
9	Insein	1,467	6	3	14,049	15	3	...			915	1	0
10	Prome	1,702	0	0	9,518	12	6	...			...		
	IRRAWADDY DIVISION.												
11	Bassein	2,063	8	0	15,257	14	0	2,392	6	0	...		
12	Henzada	1,686	6	0	15,426	14	0	...			...		
13	Myaungmya	1,898	0	0	18,308	1	0	...			...		
14	Maubin	1,060	10	0	11,293	8	0	...			...		
15	Pyapôn	1,432	8	0	11,606	0	0	...			...		
	TENASSERIM DIVISION.												
16	Salween	343	13	0	5,031	8	0	...			...		
17	Thatôn	1,150	5	0	12,127	3	0	...			...		
18	Amherst	2,327	14	0	16,577	9	0	4,284	12	0	...		
19	Tavoy	721	14	0	7,269	11	0	75	5	0	...		
20	Mergui	656	4	0	6,191	2	0	1,147	11	0	...		
21	Toungoo	1,268	9	0	12,035	10	0	1,721	3	0	...		
	MAGWÈ DIVISION.												
22	Thayetmyo	707	15	0	7,434	11	0	965	4	0	...		
23	Minbu	676	10	6	9,670	12	6	1,684	14	0	...		
24	Magwe	759	7	0	10,402	0	9	...			...		
25	Pakôkku	1,144	5	0	10,298	7	6	2,287	12	0	...		
26	Chin Hills	19	0	0	6,822	15	0	...			6,822	15	0

• The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1932-33—contd.

Paid from												Number of all successful vaccinations and re-vaccinations by special staff only.	Average cost of each successful case.*			No.
District Council Funds.			Municipalities.			Federated Funds.			Total.							
(19)			(20)			(21)			(22)			(23)	(24)			(1)
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.		Rs.	A.	P.	
9,732	9	0	2,093	5	0	...			12,737	12	0	21,071	0	9	8	1
...			...			...			2,549	5	0	1,418	1	12	9	2
...			213	4	0	...			6,134	6	0	9,672	0	10	2	3
...			263	2	0	...			3,987	2	0	3,966	1	0	1	4
...			35,999	5	3	...			36,669	1	3	14,124	2	9	6	5
10,770	9	0	1,462	3	0	...			12,232	12	0	19,741	0	9	11	6
12,015	0	3	3,699	3	8	...			15,714	3	11	37,542	0	6	8	7
15,127	5	0	873	9	0	...			16,000	14	0	20,328	0	12	7	8
10,297	7	0	2,837	7	3	...			14,049	15	3	22,797	0	9	10	9
7,210	0	6	2,308	12	0	...			9,518	12	6	28,335	0	5	4	10
10,121	14	0	2,743	10	0	...			15,257	14	0	50,051	0	4	11	11
13,553	13	0	1,873	1	0	...			15,426	14	0	32,129	0	7	8	12
16,806	1	0	1,502	0	0	...			18,308	1	0	36,877	0	7	10	13
9,767	6	0	1,526	2	0	...			11,293	8	0	25,331	0	7	9	14
10,621	10	0	984	6	0	...			11,606	0	0	25,406	0	7	4	15
5,031	8	0	...			...			5,031	8	0	3,803	1	5	2	16
11,105	12	0	1,021	7	0	...			12,127	3	0	17,544	0	11	1	17
6,435	7	0	5,857	6	0	...			16,577	9	0	26,045	0	10	2	18
5,606	10	0	1,587	12	0	...			7,269	11	0	15,355	0	7	7	19
4,175	11	0	867	12	0	...			6,191	2	0	8,561	0	11	7	20
8,540	15	0	1,773	8	0	...			12,035	10	0	13,775	0	14	0	21
5,877	0	0	592	7	0	...			7,434	11	0	13,159	0	9	0	22
7,259	12	6	726	2	0	...			9,670	12	6	12,228	0	12	8	23
7,966	0	9	2,436	0	0	...			10,402	0	9	18,853	0	8	10	24
7,224	0	6	786	11	0	...			10,298	7	6	15,804	0	10	5	25
...			...			...			6,822	15	0	6,986	0	15	8	26

vaccinations and re-vaccinations performed by special staff only (*vide* column 23).

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department*

No.	Divisions and Districts.	Expenditure. Contingencies.	Total Cost.	Deputy Commissioner's Local Funds.	Provincial Funds.
(1)	(2)	(15)	(16)	(17)	(18)
	MANDALAY DIVISION.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
27	Mandalay	2,556 6 0	12,878 14 3	758 4 0	180 0 0
28	Kyauksè	581 15 0	5,545 2 0	...	...
29	Meiktila	1,123 7 0	4,941 0 0	...	...
30	Myingyan	61 4 0	11,666 5 0	...	...
31	Yamèthin	1,337 7 6	8,630 6 3	...	...
	SAGAING DIVISION.				
32	Bhamo	462 2 0	3,308 6 0	2,732 11 0	...
33	Myitkyina	59 0 0	2,977 14 0	2,092 6 0	...
34	Shwebo	1,461 8 0	11,984 15 0	...	...
35	Sagaing	5 10 6	5,447 11 6	...	...
36	Katha	655 14 5	9,115 8 5	9,115 8 5	...
37	Upper Chindwin	864 12 6	10,963 9 6	10,963 9 6	...
38	Lower Chindwin	1,314 12 0	6,790 2 0	...	
	OTHERS.				
39	Meiktila Vaccine Depôt ...	12,681 4 0	32,972 3 0	...	32,972 3 0
40	Office of Director of Public Health, Burma.	956 6 0	956 6 0	...	956 6 0
	TOTAL ...	58,135 4 11	4,33,526 9 7	53,327 14 11	42,516 5 0
	FEDERATED SHAN STATES.				
	Northern Shan States ...	2,649 6 0	16,278 10 0	...	...
	Southern Shan States ...	1,796 14 0	20,450 5 0	...	...
	TOTAL ...	4,446 4 0	36,728 15 0	...	...

* The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1932-33—concld.

Paid from				Number of all successful vaccinations and re-vaccinations by special staff only.	Average cost of each successful case.*	No.
District Council Funds.	Municipalities.	Federated Funds.	Total.			
(19)	(20)	(21)	(22)	(23)	(24)	(1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
5,276 14 0	6,663 12 3	...	12,878 14 3	33,013	0 6 3	27
5,046 13 0	498 5 0	...	5,545 2 0	9,202	0 9 8	28
4,354 0 0	587 0 0	...	4,941 0 0	12,906	0 6 2	29
10,298 6 0	1,367 15 0	...	11,666 5 0	21,323	0 8 9	30
7,027 3 0	1,603 3 3	...	8,630 6 3	19,051	0 7 3	31
...	575 11 0	...	3,308 6 0	10,533	0 5 0	32
...	885 8 0	...	2,977 14 0	3,280	0 14 6	33
11,203 5 0	781 10 0	...	11,984 15 0	27,984	0 6 10	34
4,526 15 6	920 12 0	...	5,447 11 6	18,880	0 4 7	35
...	...	...	9,115 8 5	12,541	0 11 8	36
...	...	...	10,963 9 6	12,652	0 13 10	37
6,365 14 0	424 4 0	...	6,790 2 0	21,021	0 5 2	38
...	...	...	32,972 3 0	...	...	39
...	...	...	956 6 0	...	...	40
2,49,345 14 0	88,336 7 8	...	4,33,526 9 7	703,287	0 9 10	
...	...	16,278 10 0	16,278 10 0	44,063	0 5 11	
...	916 9 0	19,533 12 0	20,450 5 0	38,102	0 8 7	
...	916 9 0	35,812 6 0	36,728 15 0	82,165	0 7 2	

vaccinations and re-vaccinations performed by special staff only (*vide* column 23).

COMPARATIVE STATEMENT NO. III—*Showing the number of persons vaccinated in the Province of Burma in*

Establishments.	Persons prima									
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
	1923-24.		1924-25.		1925-26.		1926-27.		1927-28.	
(1)	(2)		(3)		(4)		(5)		(6)	
Government.	180,459	168,357	6,806	4,997	5,673	3,850	5,141	3,745	7,770	5,922
Municipal	41,977	39,974	49,378	47,231	45,781	43,895	45,208	41,841	47,479	42,732
Local Funds.	274,439	261,999	424,954	402,000	436,679	411,970	419,711	387,665	432,745	380,584
Dispensary	4,534	3,673	6,116	5,175	3,759	2,789	3,574	1,890	6,368	2,157
Other Agencies.	974	695	537	523	287	260	280	253	253	229
Total ...	502,383	474,698	487,791	459,926	492,179	462,764	473,914	435,394	494,615	431,624
Federated Shan States.	45,671	43,552	48,476	44,673	67,872	64,245	39,998	38,864	60,034	52,837

primarily vaccinated and the number of those persons who were successfully each of the undermentioned official years.

rily vaccinated.

Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Establishments.
1928-29. (7)		1929-30. (8)		1930-31. (9)		1931-32. (10)		1932-33. (11)		(12)
10,137	8,478	10,972	7,444	9,581	7,766	9,335	7,566	12,707	8,769	Government.
51,565	47,819	49,272	45,680	48,013	44,130	57,174	52,211	59,848	54,675	Municipal
473,466	440,571	504,704	469,318	492,893	458,389	469,598	436,335	557,582	507,654	Local Funds.
7,105	2,532	4,863	1,819	3,810	546	2,660	1,200	2,020	420	Dispensary.
372	356	665	371	220	200	736	711	3,535	1,150	Other Agencies.
542,645	499,756	570,476	524,632	554,517	511,031	539,503	498,023	635,692	572,668	Total.
71,051	57,133	57,508	50,481	59,680	53,997	65,080	58,775	87,668	70,225	Federated Shan States.

STATEMENT NO. IV—*Showing particulars of Vaccination verified*

No.	Districts.	Total number of persons vaccinated.		Total number inspected			
				By Assistant Director of Public Health or District Health Officer.		By Inspectors of Vaccination or other Inspecting Officers.	
		Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Primary.	Re vaccinations.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Akyab	17,860	22,618	1,537	1,311	14,583	18,327
2	Arakan Hill Tracts ...	1,245	1,635	85	395	...	...
3	Kyaukpyu	10,514	3,736	2,836	200	5,590	1,681
4	Sandoway	4,589	3,266	99	47	1,429	447
5	Rangoon	9,548	48,945	755	768	6,564	24,101
6	Pegu	19,564	9,265	10,006	1,811	17,891	6,247
7	Tharrawaddy	33,667	14,964	559	73	22,821	5,174
8	Hanthawaddy	19,407	10,783	3,448	1,070	16,826	4,972
9	Insein	21,421	14,541	2,943	25	14,378	5,259
10	Prome	24,709	16,982	162	261	12,970	4,823
11	Bassein	48,730	17,235	350	79	20,219	6,796
12	Henzada	31,446	13,026	1,566	1,060	14,580	2,712
13	Myaungmya	38,135	22,253	2,384	1,395	18,852	10,259
14	Maubin	25,459	9,971	398	212	22,470	6,333
15	Pyapôn	23,843	9,152	9,991	2,434	17,923	5,687
16	Salween	3,981	3,193	1,086	929	2,524	2,071
17	Thatôn	18,519	9,073	540	49	13,603	3,769
18	Amherst	23,711	11,379	968	1,126	15,574	6,695
19	Tavoy	7,180	15,054	4,034	7,638	5,073	7,018
20	Mergui	9,980	2,752	1,113	138	8,116	2,006
21	Toungoo	13,379	7,187	..	...	8,722	4,221
22	Thayetmyo	12,138	12,435	794	1,265	4,802	904
23	Minbu	9,997	7,452	555	28	6,213	4,159
24	Magwe	17,000	11,360	1,102	554	9,761	3,586
25	Pakôkku	16,927	8,497	2,144	500	8,520	3,585
26	Chin Hills	9,129	2,257	2,919	379	3,237	366
27	Mandalay	17,646	53,289	1,284	4,244	4,056	11,182
28	Kyauksè	5,697	8,984	1,139	171	4,604	6,485
29	Meiktila	12,309	15,289	2,252	1,632	10,313	12,053
30	Myingyan	24,853	5,226	3,221	294	12,204	2,222
31	Yamèthin	16,682	22,199	1,371	565	10,935	7,881
32	Bhamo	11,006	5,170	904	567	...	...
33	Myitkyina	5,102	3,146	735	430	7	103
34	Shwebo	20,290	19,788	124	191	7,268	5,975
35	Sagaing	16,985	15,450	117	70	9,368	4,967
36	Katha	11,610	5,519	2,831	2,323	6,655	3,326
37	Upper Chindwin	9,925	10,541	1,195	1,684	7,525	9,491
38	Lower Chindwin	11,509	28,741	1,019	2,941	5,973	16,220
	TOTAL ...	6,35,692	5,02,453	68,566	38,859	3,72,149	2,21,103
	FEDERATED STATES.						
	Northern Shan States ...	49,467	21,305	2,985	1,752	1,728	582
	Southern Shan States ...	38,201	11,996	...	...	26,356	4,647
	TOTAL ...	87,668	33,301	2,985	1,752	28,084	5,229

by Inspecting Officers during the year 1932-33 (Paragraph 14).

Percentage of inspections to total number vaccinated				Percentage of cases found successful of total number inspected				Percentage of success reported by persons performing Vaccinations.		No.
By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.		By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.				
Primary. (9)	Re-vaccinations. (10)	Primary. (11)	Re-vaccinations. (12)	Primary. (13)	Re-vaccinations. (14)	Primary. (15)	Re-vaccinations. (16)	Primary. (17)	Re-vaccinations. (18)	(1)
8·61	5·80	81·65	81·03	94·21	15·64	85·40	13·34	93·78	27·30	1
6·83	24·10	...	...	82·35	26·58	...	...	84·56	50·82	2
26·97	5·35	53·17	44·99	87·83	50·50	84·63	28·79	89·62	30·97	3
2·16	1·44	31·14	13·69	94·95	2·13	90·48	2·46	89·73	6·56	4
7·91	1·57	68·75	49·24	98·54	25·78	98·64	28·56	98·82	27·99	5
51·14	19·55	91·45	67·43	99·85	19·82	89·98	23·26	99·40	27·31	6
1·66	0·49	67·78	34·58	100·00	34·25	99·98	32·61	99·98	42·63	7
17·77	9·92	86·70	46·11	99·42	4·49	98·32	22·79	97·99	17·44	8
13·74	0·17	67·12	36·17	97·62	100·00	98·73	22·32	98·51	23·73	9
0·66	1.54	52·49	28·40	98·15	57·47	98·53	28·09	99·42	29·01	10
0·72	0·46	41·49	39·43	96·86	37·97	96·56	33·06	98·23	36·36	11
4·98	8·14	46·37	20·82	99·62	1·32	98·96	14·23	99·55	13·95	12
6·25	6·27	49·43	46·10	97·61	15·63	98·11	25·25	92·99	28·80	13
1·56	2·13	88·26	63·51	96·73	32·08	99·17	10·71	98·73	10·20	14
41·90	26·60	75·17	62·14	98·66	11·96	99·96	19·01	99·87	18·59	15
27·28	29·09	63·40	64·86	94·66	25·62	95·48	25·74	95·64	26·43	16
2·92	0·54	73·45	41·54	95·19	12·24	94·42	11·14	93·59	20·23	17
4·08	9·90	65·68	58·83	95·76	47·16	97·72	37·27	98·41	37·26	18
56·18	50·74	70·65	46·62	97·82	62·84	96·75	59·09	96·65	58·74	19
11·15	5·01	81·32	72·89	98·02	52·17	81·38	44·42	76·63	58·38	20
...	...	65·19	58·73	...	...	96·46	14·26	96·35	17·21	21
6·54	10·17	39·56	7·27	92·57	38·42	93·92	47·35	97·67	42·36	22
5·55	0·38	62·15	55·81	91·89	82·14	87·56	54·88	91·12	52·33	23
6·48	4·88	57·42	31·57	97·10	25·27	95·75	28·92	98·56	26·72	24
12·67	5·88	50·33	42·19	96·04	11·60	93·06	16·57	91·50	12·34	25
31·98	16·08	35·46	15·53	70·88	26·91	77·85	45·36	74·53	42·54	26
7·28	7·96	22·99	20·98	99·45	29·57	96·55	28·77	97·23	36·33	27
19·99	1·90	80·81	72·18	98·95	33·33	99·44	39·94	99·56	47·07	28
18·30	10·67	83·78	78·83	93·78	29·53	94·37	17·11	94·66	19·09	29
12·96	5·63	49·10	42·52	95·59	23·81	87·43	12·02	88·97	12·81	30
8·22	2·55	65·55	35·50	86·29	27·96	92·82	30·61	94·16	32·20	31
8·21	10·97	...	...	93·03	29·81	...	...	99·85	71·42	32
14·41	13·67	0·14	3·27	79·05	36·05	85·71	73·79	89·93	41·20	33
0·61	0·97	35·82	30·20	99·19	58·12	94·91	54·86	96·08	56·75	34
0·69	0·45	55·15	32·15	94·02	15·71	92·54	31·97	94·86	41·75	35
24·38	42·09	57·32	60·26	95·41	27·21	96·27	31·21	97·60	30·43	36
12·04	15·98	75·82	90·04	87·36	51·13	83·34	45·87	87·07	43·25	37
8·85	10·23	51·90	56·44	83·61	37·67	87·09	42·82	89·95	44·86	38
10·79	7·73	58·54	44·00	95·24	34·39	94·77	29·35	95·68	33·25	
6·03	8·22	3·49	2·73	91·56	58·33	97·92	34·02	99·14	64·52	
...	...	68·99	38·74	...	...	98·35	30·92	98·10	33·24	
3·40	5·26	32·03	15·70	91·56	58·33	98·32	31·27	98·62	52·09	

APPENDIX A.—*Statement showing the ratio per* 10,000 *successfully vaccinated and the mortality from Small-pox by quinquennial periods.*

Official Year. (1)	Ratio per 10,000 successfully vaccinated. (2)	Quinquennial mean. (3)	Calendar Year. (4)	Ratio per 10,000 of mortality from small-pox. (5)	Quinquennial mean. (6)
		BURMA.			
1917-18 ...	371·15		1917 ...	0·57	
1918-19 ...	424·46		1918 ...	0·76	
1919-20 ...	568·98	454·36	1919 ...	3·99	1·81
1920-21 ...	476·39		1920 ...	2·90	
1921-22 ...	432·76		1921 ...	0·92	
1922-23 ...	455·54		1922 ...	1·34	
1923-24 ...	475·39		1923 ...	2·63	
1924-25 ...	485·25	463·35	1924 ...	2·31	2·40
1925-26 ...	479·86		1925 ...	3·56	
1926-27 ...	420·72		1926 ...	2·16	
1927-28 ...	454·15		1927 ...	1·57	
1928-29 ...	505·39		1928 ...	2·61	
1929-30 ...	520·93	482·60	1929 ...	1·70	1·40
1930-31 ...	495·10		1930 ...	0·85	
1931-32 ...	441·96		1931 ...	0·40	
1932-33 ...	539·16		1932 ...	2·05	
		..			
		FEDERATED	SHAN STATES.		
1917-18 ...	156·26				
1918-19 ...	139·47				
1919-20 ...	168·83	175·36			
1920-21 ...	195·30				
1921-22 ...	213·08				
1922-23 ...	244·21				
1923-24 ...	303·97				
1924-25 ...	314·93	323·85			
1925-26 ...	457·27				
1926-27 ...	298·85				
1927-28 ...	387·93				
1928-29 ...	440·45				
1929-30 ...	468·45	428·49			
1930-31 ...	415·41				
1931-32 ...	430·09				
1932-33 ...	532·25				

APPENDIX B.—*Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which the Vaccination Acts have been extended) on children under one year of age* (Paragraph 9).

Towns. (1)	Number of births during the year 1932-33. (2)	Number of deaths among children under one year during the year. (3)	Number of successful operations on children under one year during the year ending 31st March 1933. (4)	Date of extension of Vaccination Act of 1880. (5)	Date of extension of Vaccination Law Amendment Act of 1909. (6)
Akyab ...	717	181	471	August 1883 ...	29th March 1910.
Minbya ...	94	19	9	4th March 1930...	9th Sept. 1931.
Kyaukpyu ...	156	21	61	April 1894 ...	29th March 1910.
Sandoway ...	125	21	67	September 1890	Do.
Rangoon ...	9,341	2,533	5,515	April 1884 ...	1st May 1909.
Pegu ...	905	184	1,172	March 1893 ...	29th March 1910.
Nyaunglèbin ...	269	85	258	29th March 1910	Do.
Tharrawaddy ...	176	27	133	October 1897.	23rd July 1929.
Thônzè ...	262	58	196	Do. ...	29th March 1910.
Zigôn ...	154	46	102	11th May 1914 ...	9th Sept. 1915.
Letpadan ...	226	62	143	January 1897 ...	29th March 1910.
Gyobingauk ...	214	92	125	February 1897 ...	Do.
Minhla ...	118	20	94	11th May 1914 ...	9th Sept. 1915.
Nattalin ...	154	19	125	Do. ...	Do.
Syriam ...	460	83	314	29th January 1913	29th January 1913.
Thôngwa ...	262	52	151	3rd March 1914	3rd March 1914.
Insein ...	336	56	656	14th March 1912	14th March 1912.
Thamaing ...	146	35	112	26th May 1926 ...	26th May 1926.
Thingangyun ...	155	58	167	Do. ...	Do.
Kanbe ...	186	53	185	Do. ...	Do.
Kamayut ...	167	58	144	Do. ...	Do.
Prome ...	1,111	173	800	June 1890 ...	29th March 1910.
Shwedaung ...	316	68	211	10th Sept. 1917.	23rd July 1929.
Paungdè ...	565	139	407	August 1890 ...	29th March 1910.
Bassein ...	1,468	294	1,332	September 1888	Do.
Ngathainggyaung ...	150	35	109	February 1890 ...	Do.
Kyônpyaw ...	189	149	177	26th Dec. 1923.	23rd July 1929.
Henzada ...	739	48	978	January 1889 ...	29th March 1910.
Myanaung ...	260	100	162	July 1889 ...	Do.
Kyangin ...	234	57	146	August 1894 ...	Do.
Myaungmya ...	237	59	474	June 1894 ...	Do.
Wakèma ...	289	85	196	27th April 1907 ...	Do.
Moulmeingyun ...	251	91	155	20th July 1925 ...	20th July 1925.
Maubin ...	248	67	249	October 1891 ...	29th March 1910.

APPENDIX B.—*Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which the Vaccination Acts have been extended) on children under one year of age*—concld.

Towns. (1)	Number of births during the year 1931-32. (2)	Number of deaths among children under one year during the year. (3)	Number of successful operations on children under one year during the year ending 31st March 1932. (4)	Date of extension of Vaccination Act of 1880. (5)	Date of extension of Vaccination Law Amendment Act of 1909. (6)
Yandoon ...	289	92	229	January 1892 ...	29th March 1910.
Danubyu ...	196	51	148	9th July 1909 ...	23rd July 1929.
Pyapôn ...	276	60	245	November 1904	29th March 1910.
Kyaiklat ...	325	88	190	15th Dec. 1904 ...	Do.
Thatôn ...	593	109	380	October 1891 ...	Do.
Kyaikto ...	199	45	169	March 1897 ...	Do.
Moulmein ...	1,891	334	1,731	August 1885 ...	Do.
Kawkareik ...	299	113	148	September 1914	17th Sept. 1914.
Tavoy ...	963	125	946	December 1889	29th March 1910.
Mergui ...	811	134	483	October 1891 ...	Do.
Toungoo ...	666	76	468	May 1889 ...	Do.
Shwegyin ...	208	29	130	January 1890 ...	Do.
Pyu ...	299	69	93	January 1920 ...	17th January 1920.
Thayetmyo ...	390	159	402	May 1889 ...	29th March 1910.
Allanmyo ...	444	296	200	May 1901 ...	Do.
Minbu ...	261	60	191	March 1896 ...	Do.
Salin ...	247	80	113	Do. ...	Do.
Magwe ...	285	99	163	10th March 1913	10th March 1913.
Taungdwingyi ...	336	178	81	February 1893 ...	29th March 1910.
Yenangyaung ...	459	154	253	10th March 1913	10th March 1913.
Chauk ...	305	98	697	20th May 1929 ...	23rd July 1929.
Pakôkku ...	883	290	719	April 1892 ...	29th March 1910.
Mandalay ...	7,754	2,259	7,517	August 1891 ...	Do.
Maymyo ...	845	151	538	October 1912 ...	22nd October 1912.
Myitnge ...	132	38	94	4th June 1930 ...	4th June 1930.
Kyauksè ...	242	87	254	May 1894 ...	29th March 1910.
Meiktila ...	362	122	291	June 1906 ...	31st July 1922.
Myingyan ...	993	410	672	September 1891	29th March 1910.
Nyaung-u ...	288	83	159	30th August 1921	30th August 1921.
Yamèthin ...	359	106	317	February 1892 ...	29th March 1910.
Pyinmana ...	690	195	668	November 1891 ...	Do.
Pyawbwè ...	198	79	116	May 1912 ...	23rd July 1929.
Bhamo ...	220	45	197	26th October 1894	29th March 1910.
Myitkyina ...	218	45	148	6th May 1929 ...	23rd July 1929.
Shwebo ...	627	196	475	June 1894 ...	29th March 1910.
Ye-u ...	178	87	81	2nd April 1929 ...	23rd July 1929.
Sagaing ...	616	195	311	April 1894 ...	29th March 1910.
Myinmu ...	199	53	260	5th October 1926	5th October 1926.
Mawlaik ...	83	13	47	31st Dec. 1930	31st Dec. 1930.
Mônywa ...	482	146	278	March 1893 ...	29th March 1910.
Total ...	45,791	12,177	36,198		
FEDERATED SHAN STATES.					
Lashio ...	158	36	122	25th July 1927 ...	25th July 1927.
Kalaw ...	67	15	77	Do. ...	Do.
Taunggyi ...	346	53	168	Do. ...	Do.
Total ...	571	104	367		

APPENDIX C.—*Statement showing the local areas in which revaccination rules under Section 12A of the Burma Vaccination Law Amendment Act, 1909 (as amended by the Burma Act IV of 1928) were in force.*

Serial No.	Name of local areas.	Date of notification.
	MUNICIPAL AND NOTIFIED AREAS.	
1	Zigôn	16th May 1929.
2	Thingangyun	16th May 1929.
3	Kanbe	16th May 1929.
4	Nyaunglebin	6th June 1929.
5	Thônze	29th August 1929.
6	Syriam	29th August 1929.
7	Myinmu	16th October 1929.
8	Ngathainggyaung	8th January 1930.
9	Moulmeingyun	8th January 1930.
10	Rangoon	4th March 1930.
11	Tharrawaddy	6th May 1930.
12	Prome	18th August 1930.
13	Taungdwingyi	13th January 1931.
14	Thayetmyo	13th January 1931.
15	Henzada	13th January 1931.
16	Tavoy	13th January 1931.
17	Kawkareik	13th January 1931.
18	Nyaung-U	13th January 1931.
19	Akyab	13th January 1931.
20	Mandalay	31st March 1932.
21	Bhamo	4th April 1932.
22	Sagaing	4th April 1932.
23	Mônywa	9th April 1932.
24	Kyaikto	27th April 1932.
25	Mergui	18th May 1932.
26	Minbu	16th June 1932.
27	Kyaugin	11th August 1932.
28	Kyônpyaw	19th September 1932.
29	Maymyo	18th January 1933.
30	Sandoway	1st February 1933.
31	Bassein	11th February 1933.
	DISTRICT COUNCIL AREAS.	
1	Hanthawaddy	9th January 1932.
2	Pyapôn	28th January 1932.
3	Minbu	1st February 1932.
4	Lower Chindwin	6th February 1932.
5	Kyauksè	6th February 1932.
6	Myingyan	23rd February 1932.
7	Thayetmyo	7th March 1932.
8	Henzada	16th March 1932.
9	Insein	4th April 1932.
10	Maubin	6th April 1932.
11	Thatôn	9th April 1932.
12	Bassein	11th April 1932.
13	Mandalay	27th April 1932.
14	Tavoy	28th May 1932.
15	Magwe	14th June 1932.
16	Tharrawaddy	24th June 1932.
17	Mergui	11th July 1932.
18	Pegu	16th July 1932.

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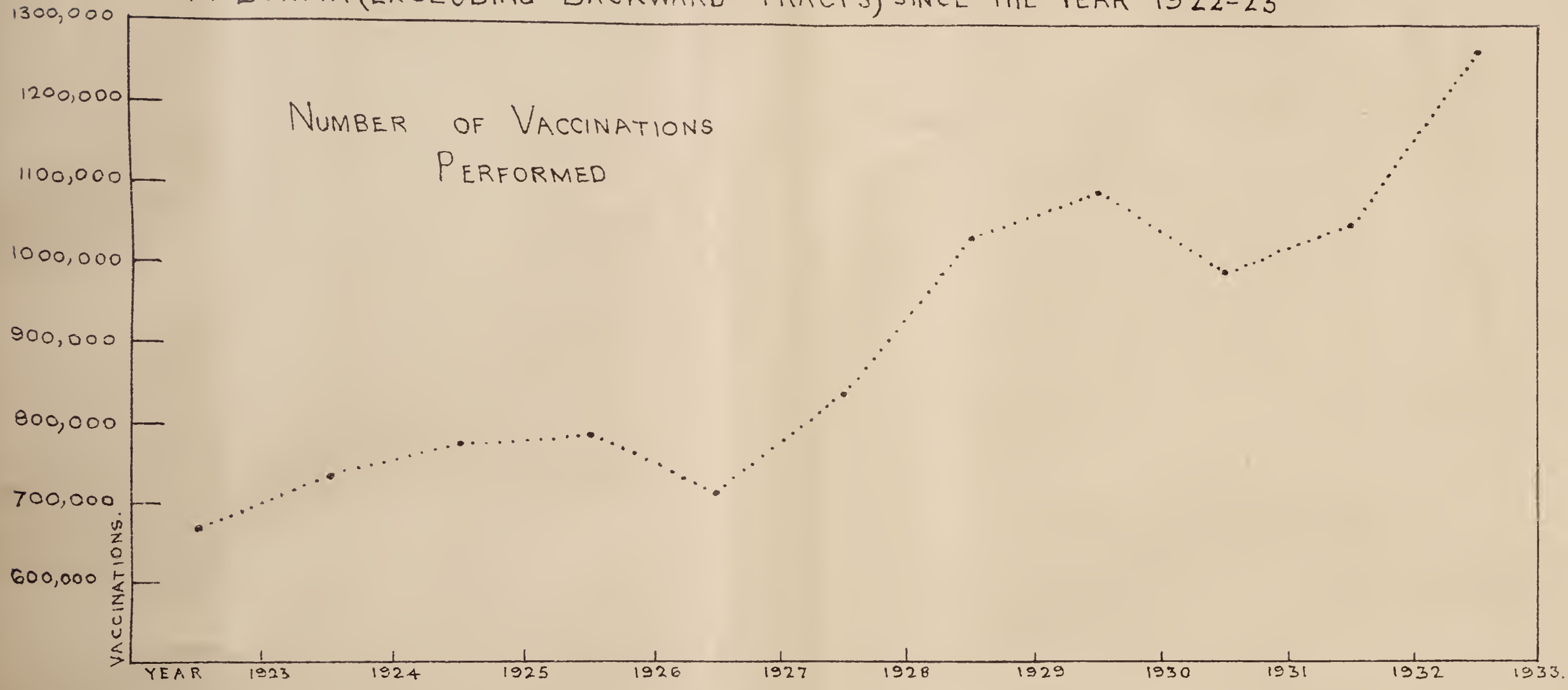
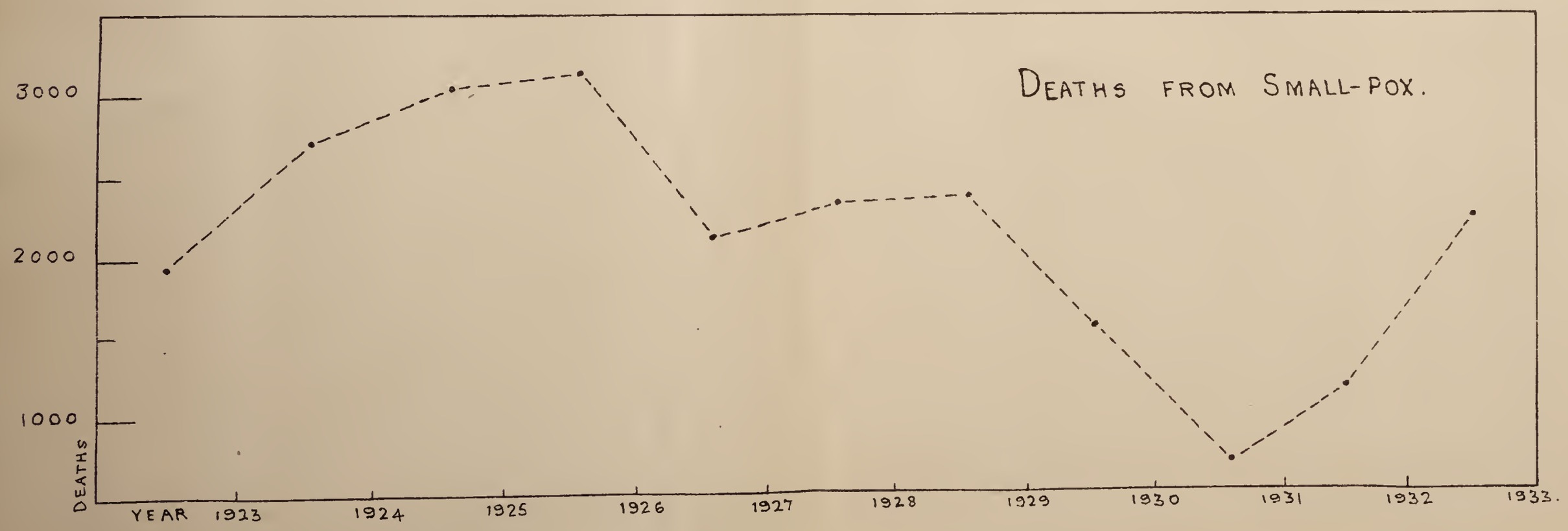
Appendix D.

Graphs showing the Vaccinations performed and the Deaths from Small-pox in Burma (excluding Backward Tracts) since the year 1922-23





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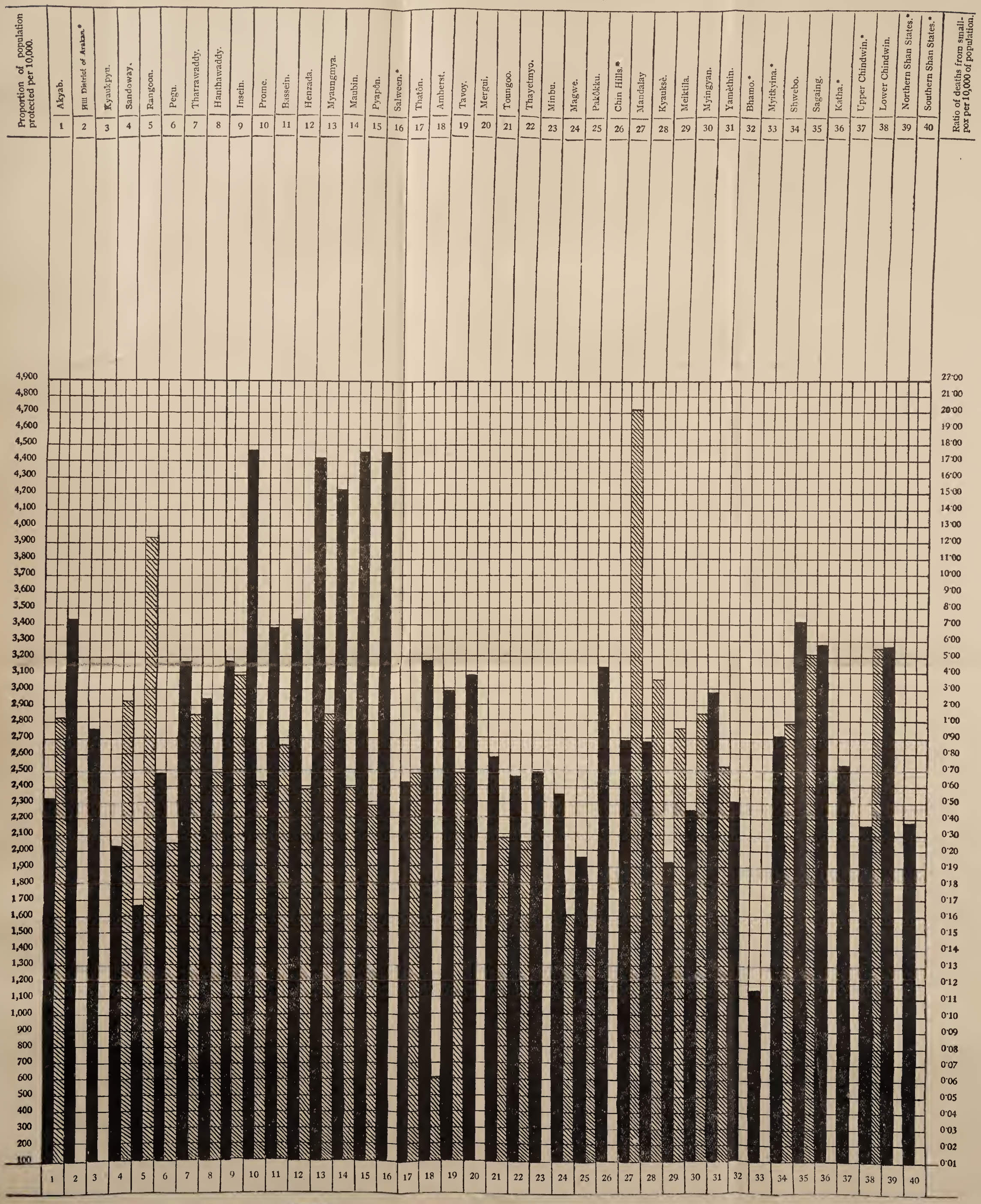
APPENDIX E.

Diagram showing the Proportion of Population protected during the seven official years from 1926-27 to 1932-33 and the Death-rate from Small-pox during the year 1932 in districts where full registration is in force.



Indicates proportion of population protected per 10,000.

Indicates ratio of deaths from small-pox per 10,000 of population.

* Full registration of vital statistics is not carried out in these districts.

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